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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,364	03/01/2004	Serge Bulteau	979-059	8937
7590 05/17/2005			EXAMINER	
SOFER & HAROUN, L.L.P.			SOHN, SEUNG C	
Suite 910				
317 Madison Avenue			ART UNIT	PAPER NUMBER
New York, NY 10017			2878	

DATE MAILED: 05/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan	10/791,364	BULTEAU, SERGE				
Office Action Summary	Examiner	Art Unit				
	Seung C. Sohn	2878				
The MAILING DATE of this communication appo Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
a) ☐ This action is FINAL . 2b) ☑ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-9 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,8 and 9</u> is/are rejected.						
7) Claim(s) 3-7 is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10)⊠ The drawing(s) filed on <u>01 March 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the o	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 0304.	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)				
2.5.4.4.7.4.4.00						

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DETAILED ACTION

Drawings

- 1. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, "the optical detector module, the meter, the rotary member and the reflective sector" in claim 1 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate

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changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

4. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Tanigawa et al. (Patent No. US 5,134,304).

Regarding claim 1, Tanigawa et al. shows In Fig. 1 the following elements of Applicant's claim:

- a) a voltage edge source (1, i.e., pulse generating circuit);
- b) a sender (1, 2, 7, 8, 91 & 92) having a light-emitting diode (23) emitting a light pulse in response to a current pulse;
 - c) a receiver (3 thru 5); and
 - d) a voltage source (6, i.e., constant voltage supply),

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in which device said sender has a capacitor (92) and a resistor (91) connected on one side to said voltage source (6) and said capacitor (92) is connected on one side to said voltage edge source (1) and on the other side to the other side of said resistor (91) and to the anode of said light-emitting diode (23).

Regarding claim 2, Tanigawa et al. discloses that the resistance of said resistor (91) is selected to bias said diode (23) whilst maintaining a low forward current in said diode (when there is no pulse) (Col. 2, lines 28-38).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanigawa et al. (Patent No. US 5,134,304) in view of Kameshima (Patent No. US 6,512,217).

Regarding claims 8-9, Tanigawa et al. shows the claimed invention as above, but is silent that the receiver comprises a capacitor for storing the energy transferred by said photodiode and comparator having an inverting input and a non-inverting input and said non-inverting input is connected to the anode of said photodiode and to one side of said storage capacitor. Kameshima shows in Fig. 7 that the receiver comprises

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a capacitor (C4) for storing the energy transferred by said photodiode (P4) and comparator (5) having an inverting input and a non-inverting input and said non-inverting input is connected to the anode of said photodiode and to one side of said storage capacitor (Col. 4, lines 37-49). It would have been obvious to one of ordinary skill in the art to provide the capacitor and the comparator of Kameshima in the device of Tanigawa et al. for the purpose of obtaining a good image without degradation of image quality.

Allowable Subject Matter

- 7. Claims 3-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter:

Claims 3-7 are allowable because the prior art fails to disclose or make obvious, either singly or in combination, a method for making measurement of a rotating object comprising, in addition to the other recited features of the claim, "a comparator for comparing the input voltage of said receiver at a threshold voltage and an adjustment capacitor the charge in which sets the value of said threshold voltage".

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seung C. Sohn whose telephone number is (571) 272-2446. The examiner can normally be reached on Monday through Friday from 8:30 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Seung C. Sohn Examiner Page 6

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